

**BRIEF
PASSENGER CAR
DATA**

1959

FOR
UNION OIL *Minute Men*



ETHYL CORPORATION



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BRIEF PASSENGER CAR DATA

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1959

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Brief Passenger Car Data for 1959

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TABLE OF CONTENTS

	Page
Notice Page and General Notes.....	5
List of Abbreviations.....	6
Summary of Characteristics.....	7
Buick	8
Cadillac	9
Chevrolet	10
Chrysler	11
Corvette	12
DeSoto	13
Dodge	14
Edsel	15
Ford	16
Imperial	17
Lincoln-Continental	18
Mercury	19
Oldsmobile	20
Plymouth	21
Pontiac	22
Rambler	23
Rambler	24
Studebaker	25
Thunderbird	26
Automatic Transmissions.....	27
Automatic Transmissions.....	28
Automatic Transmissions.....	29
Spark Plug Heat Range Comparisons.....	30
Spark Plug Heat Range Comparisons.....	31
Trend in Antiknock Quality, Regular Gasoline....	32
Trend in Antiknock Quality, Premium Gasoline...	33
Trends of American Passenger Car Engine Design	34

NOTICE

The specifications and adjustments contained in this booklet have been compiled by the Research Laboratories of the Ethyl Corporation from information supplied by manufacturers of motor cars, ignition apparatus, spark plugs, etc. None of this information represents the results of tests at the Research Laboratories of the Ethyl Corporation.

This information covers the essential characteristics, in ready reference form, of the 1959 passenger car models. It is correct at date of publication, but changes may be made from time to time by motor car manufacturers.

Data on horsepower, torque, bmep, etc., are that given by the manufacturer. Methods and technique of testing differ in various engineering departments, so these data are frequently not comparable for different makes of cars.

GENERAL NOTES

Spark Plugs

The spark plug installed and recommended by the factory is shown first in the specifications with the corresponding AC, Auto-Lite or Champion spark plug shown as an alternate. These plugs are designed for average driving conditions. For heavy-duty or high-speed driving, it may be necessary to use a colder plug in order to obtain satisfactory spark plug life. The necessity for a colder plug is indicated by rapid electrode wear.

It is sometimes necessary to change to a plug which is hotter than the factory equipment plug for very light service, especially in metropolitan areas. If an engine is not pumping oil and the ignition system is in good condition but the spark plug consistently fouls — the need for a hotter plug is indicated. Caution should be exercised in using hotter than standard plugs as they are likely to cause preignition if the vehicle is subjected to high-speed driving.

Ignition Timing

Ignition timing is given in crankshaft degrees and is factory setting. All distributors are provided with an adjustment enabling the ignition timing to be reset without disturbing the calibration of the distributor advance mechanism. Retarded ignition timing will eliminate or reduce detonation but will result in decreased performance and fuel economy. Also, in most cases, an ignition setting slightly in advance of the factory setting will result in additional performance and economy, although such an ignition setting will require a fuel of higher antiknock value than the standard setting.

Carburetors

Carburetors should not be adjusted or jets changed except by qualified mechanics. Correct fuel (or float) levels are extremely important to satisfactory performance and fuel economy — factory specifications should be strictly maintained.

Transmissions and Axle Ratio

The transmissions which are available as standard or optional equipment are listed with the axle ratios which are used as standard equipment with each type of transmission. In some instances additional axle ratios are available as optional equipment. A description of the automatic transmissions is given on pages 27, 28 and 29.

Shipping Weight

The shipping weight is given for the four-door sedan with standard equipment. The weight of optional equipment such as radios, heaters, and automatic transmissions, etc., is not included. If the automatic transmission is included as standard equipment on the car, its weight is included in the shipping weight.

LIST OF ABBREVIATIONS

AC	AC Spark Plug Division, GMC
Adv	Advance
AL	The Electric Auto-Lite Company
AMA	Automobile Manufacturers Association
ATC	After Top Center
BHP	Brake Horsepower
Bmep	Brake mean effective pressure
BTC	Before Top Center
C	Cold (valve adjustment)
Car	Carter (carburetors)
CAS	Cast Austenitic Steel
Centrif	Centrifugal
Champ	Champion Spark Plug Company
Clr	Clearance
CNS	Chrome Nickel Steel
DD	Downdraft
Deg	Degrees
DR	Delco-Remy Division, GMC
Eng	Engine
Eqpt	Equipment
Exh	Exhaust
H	Hot (valve adjustment)
Hyd Lifters	Hydraulic Lifters
I	In-head (overhead valves)
Int	Intake
L	L-head
Max	Maximum
NA	Not Available
Neg	Negative
No. Cyl	Number of Cylinders
OD	Overdrive
Opt	Optional
Recm Press	Recommended Pressure (tires)
RP	Rochester Products (carburetors)
Sil	Silchrome
Sgl	Single
Std	Standard
Strom	Stromberg Carburetor Company
TDC	Top Dead Center
Trans	Transmission
Vac	Vacuum

SUMMARY OF CHARACTERISTICS
1959 UNITED STATES PASSENGER CARS
Specifications for Four-Door Sedans

	<u>1958</u>	<u>1959</u>	<u>Change</u>
Number of Makes	18	17	-1
Number of Models	50	47	-3
ENGINE CHARACTERISTICS:			
Average Compression Ratio	9.47	9.50	+0.03
Highest Standard Compression Ratio	10.5	10.5	....
Lowest Standard Compression Ratio	7.8	8.0	+0.2
Average Displacement, Cubic Inches	325	338	+13
Average Maximum Brake Horsepower	259	260	+1
Average RPM at Maximum Horsepower.....	4534	4448	-86
Average Horsepower Per Cubic Inch	0.779	0.754	-0.025
Average Brake Mean Effective Pressure, PSI...	159.2	157.6	-1.6
Maximum Horsepower Per Cubic Inch	0.952	0.885	-0.087
Minimum Horsepower Per Cubic Inch	0.460	0.460	....
Average Shipping Weight	3775	3861	+86
Average Lb/HP — 6 Passenger Sedan	15.8	16.2	+0.4

See Curve on Page 34

BUICK

CAR MODEL	LeSabre Series 4400	Invicta Series 4600	Electra Series 4700 and 4800
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.125 x 3.4	4.188 x 3.64	4.188 x 3.64
Displacement (cu in).....	364	401	401
AMA Horsepower.....	54.45	56.11	56.11
Max Horsepower @ rpm.....	250 @ 4400 (1,2)	325 @ 4400	325 @ 4400
Max Torque, lb-ft @ rpm.....	384 @ 2400 (1,2)	445 @ 2800	445 @ 2800
Max bmep, lb/sq in.....	159.1	167.3	167.3
Compression Ratio.....	10.5 (1)	10.5	10.5
IGNITION			
Spark Plug—Factory Eqpt.....	AC 44S	AC 44S	AC 44S
Alternate.....		Champ J-12Y, AL	A42
Spark Plug Gap (in).....	.030 to .035	.030 to .035	.030 to .035
Firing Order.....		1-2-7-8-4-5-6-3	
Distributor Model.....	DR 1110936 (3)	DR 1110936	DR 1110936
Breaker Gap (in).....	.0125 to .0175	.0125 to .0175	.0125 to .0175
Cam Angle (degrees).....	30	30	30
Basic Timing.....	12°BTC (4)	12°BTC	12°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.875; 0.443	1.875; 0.439	1.875; 0.439
	Exh 1.50; 0.439	1.50; 0.441	1.50; 0.441
Tappet Clr—Valve Material.....	Int Hydraulic Lifters; SAE 8645	Hydraulic Lifters; SAE 8645	
	Exh Hydraulic Lifters; Sil 10 or 2155N		
CARBURETOR			
Make, Model.....	Car WGD or Strom WW	Car AFB or Roch 4GC	
Type and Size (in).....	2 Bbl; 1.44	4 Bbl; Pri 1.56, Sec 1.69	
TRANSMISSION			
Standard.....	Manual	Twin Turbine	
Optional.....	Twin Turbine or Triple Turbine	Triple Turbine	
Axle Ratio with			
Manual.....	3.58	NA	NA
Twin Turbine.....	3.07 (5)	3.23	3.23
Triple Turbine.....	2.78	2.78	2.78
CAPACITY			
Oil (Refill).....(qt)	4	4	4
Water (incl heater).....(qt)	19	19	19
Manual Transmission.....(pt)	2.5	Twin Turbine 12; Triple Turbine 12.5	
Auto. Trans. ....(Refill-qt)			
Rear Axle.....(pt)	6.5			6.5
Gasoline.....(gal)	20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	123.0	123.0	126.3
Over-All Length.....(in)	217.4	217.4	220.6 (6)
Shipping Weight.....(lb)	4229	4331	4557
Tire Size—Recm Press.....(lb)	7.60x15-24-24	7.60x15-24-24 (7)	8.00x15-24-24

(1) HP, torque, bmep and comp. ratio for engines equipped with automatic transmission. For conventional transmission the comp. ratio is 8.5 and power figures are not available.

(2) With optional 4-bbl carburetor and dual exhaust 300 bhp @ 4400, 405 lb-ft torque @ 2800.

(3) DR 1110949 with Synchromesh transmission.

(4) Basic timing set at 5°BTC with Synchromesh transmission.

(5) 3.23 axle ratio used with optional 4-bbl carburetor power pack.

(6) 225.4 for Series 4800, except style 4867.

(7) 8.00x15 optional on Invicta.

CADILLAC

CAR MODEL	Series 62 60 Special	Eldorado	Fleetwood 75
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.00 x 3.875	4.00 x 3.875	4.00 x 3.875
Displacement (cu in).....	390	390	390
AMA Horsepower.....	51.2	51.2	51.2
Max Horsepower @ rpm.....	325 @ 4800 (1)	345 @ 4800	325 @ 4800
Max Torque, lb/ft @ rpm.....	430 @ 3100 (1)	435 @ 3400	430 @ 3100
Max bmep, lb sq in.....	166.3	166.2	166.3
Compression Ratio.....	10.5	10.5	10.5
IGNITION			
Spark Plug—Factory Eqpt.....	AC 44	AC 44	AC 44
Alternate.....		Champ J-12Y, AL	A42
Spark Plug Gap (in).....	.035	.035	.035
Firing Order.....		1-8-4-3-6-5-7-2	
Distributor Model.....	DR 1110932	DR 1110952	DR 1110932
Breaker Gap (in).....	.016	.016	.016
Cam Angle (degrees).....	28 to 32	28 to 32	28 to 32
Basic Timing.....	5°BTC	7.5°BTC	5°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.875; 0.451 Exh 1.50; 0.451	1.875; 0.451 1.50; 0.451	1.875; 0.451 1.50; 0.451
Tappet Ctr—Valve Material, Int.....		Hyd. Lifters; 1041 Aluminized	
Exh.....		Hyd. Lifters; Sil X-10, 2112N or 21-4N	
CARBURETOR			
Make, Model.....	Car APB or RP 4GC	3-RP 2GC	Car APB or RP 4GC
Type and Size (in).....	4 Bbl; Pri 1.44, Sec 1.69	Prt. & Rear 1.69, Center 1.44	4 Bbl; Pri 1.44, Sec 1.69
TRANSMISSION			
Standard.....	Hydra-Matic	Hydra-Matic	Hydra-Matic
Optional.....			
Axle Ratio with Hydra-Matic.....	2.94 (2)	3.21	3.36
Optional Ratio.....	3.21	2.94 (2)	3.77
CAPACITY			
Oil (Refill).....(qt) 5		5	5
Water (incl heater).....(qt) 19½		19½	20¾
Manual Transmission.....(pt) 11½		11½	11½
Auto. Trans. (Refill-qt).....			
Rear Axle.....(pt) 5		5	5
Gasoline.....(gal) 21		21	21
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in) 130		130	149.8
Over-All Length.....(in) 225		225	244.8
Shipping Weight.....(lb) 4770 (3)		(4)	5490
Tire Size—Recm Press.....(lb) 8.00x15-20-26(5)		8.20x15-24-24	8.20x15-28-28

(1) Eldorado engine optional on all other series.

(2) 3.21 ratio used on air-conditioned cars with no option.

(3) Weight given for 62 four-window sedan; Fleetwood 60 Special is 4890.

(4) Eldorado Seville 4915, Eldorado Biarritz 5020 pounds.

(5) All white sidewall tires are 8.20x15.

CHEVROLET

CAR MODEL	Six	Turbo-Fire 283 V-8	Turbo-Thrust 348 V-8
ENGINE			
No. Cyl-Head Type	6-I	V-8-I	V-8-I
Bore and Stroke (in)	3.56 x 3.94	3.875 x 3.00	4.125 x 3.25
Displacement (cu in)	235.5	283	348
AMA Horsepower	30.4	48	54.5
Max Horsepower @ rpm.....	135 @ 4000	185 @ 4600 (1)	250 @ 4400 (2)
Max Torque, lb-ft @ rpm.....	217 @ 2200	275 @ 2400 (1)	355 @ 2800 (2)
Max bmep, lb/sq in.....	139.0	146.5	153.8
Compression Ratio	8.25	8.5 (1)	9.5 (2)
IGNITION			
Spark Plug—Factory Eqpt	AC 44	AC 44	AC 44N
Alternate.....	Champ J-12Y, AL A42	Champ J-12Y, AL A42	AGR42
Spark Plug Gap (in).....	.035	.035	.035
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model	DR 1112403	DR 1110947 (3)	DR 1110948
Breaker Gap (in) .....	.016 to .021	.016 to .021	.016 to .021
Cam Angle (degrees)	28 to 35	26 to 33	26 to 33
Basic Timing	5°BTC	4°BTC	4°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.875; 0.328 Exh 1.50; 0.328	1.72; 0.399 1.50; 0.399	1.94; 0.399 1.66; 0.399
Tappet Cir-Valve Material ...	Int Exh	Hydraulic Lifters; 8645 Hydraulic Lifters; 21-4N	
CARBURETOR			
Make, Model	RP BC	RP 2GC (1)	Car or RP (2)
Type and Size (in)	Sgl; 1.56	2 Bbl; 1.44	4 Bbl; 1.44
TRANSMISSION			
Standard	Manual	Manual	Manual
Optional	Powerglide	Powerglide or Turboglide	
Axle Ratio with			
Manual	3.55	3.55	3.36
Overdrive	4.11	4.11	None
Automatic	3.36	3.36	3.08
CAPACITY			
Oil (Refill)	(qt) 5	4	4
Water (Incl heater)	(qt) 18	18.5	22
Manual Transmission.....	(pt) 2 (4)	2 (4) (5)	2 (5)
Auto Trans. (Refill-qt) ..	4.5	Powerglide 4.5; Turboglide 2	
Rear Axle	(pt) 4	4	4
Gasoline	(gal) 20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 119	119	119
Over-All Length	(in) 210.9	210.9	210.9
Shipping Weight	(lb) 3630 (6)	3640 (6)	3778 (6)
Tire Size—Recm Press.	(lb) 7.50x14-24-24	7.50x14-24-24	7.50x14-24-24

- (1) With optional 4-bbl carburetor and 9.5 comp. ratio, 230 bhp @ 4800 rpm, 300 lb-ft @ 3000; with fuel injection, 250 bhp @ 5000, 305 lb-ft @ 3800; with fuel injection, special cam and 10.5 comp. ratio, 290 bhp @ 6200, 290 lb-ft @ 4400.
- (2) With optional three 2-bbl carburetors 280 bhp @ 4800, 355 lb-ft @ 3200. With Powerglide transmission, special camshaft, 4-bbl carburetor and 11:1 comp. ratio 305 bhp @ 5600, 350 lb-ft @ 3600. With manual transmission, special camshaft and 11.25 comp. ratio 320 bhp @ 5600, 358 lb-ft @ 3600 with 4-bbl carb. and 335 bhp @ 5800, 362 lb-ft @ 3600 with three 2-bbl carburetors.
- (3) Delco-Remy 1110946 used with 9.5 comp. ratio 4-bbl carburetor engine.
- (4) One pint additional with overdrive.
- (5) 3.5 pint with 4-speed manual transmission.
- (6) Weight given for Bel Air four-door sedan with manual transmission.

CHRYSLER

CAR MODEL	Windsor	Saratoga	New Yorker
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.03 x 3.75	4.03 x 3.75	4.18 x 3.75
Displacement (cu in).....	383	383	413
AMA Horsepower.....	52.0	52.0	55.9
Max Horsepower @ rpm.....	305 @ 4600	325 @ 4600	350 @ 4600 (1)
Max Torque, lb-ft @ rpm.....	410 @ 2400	425 @ 2800	470 @ 2800 (1)
Max bmep, lb/sq in.....	161.4	167.3	171.6
Compression ratio.....	10.1	10.1	10.1
IGNITION			
Spark Plug—Factory Eqpt.....	AL A-42	AL A-42	AL A-42
Alternate.....		Champ J-12Y, AC	44S
Spark Plug Gap (in).....	.035	.035	.035
Firing Order.....		1-8-4-3-6-5-7-2	
Distributor Model.....	AL IBP-4006	AL IBP-4006	AL IBS-4010A
Breaker Gap (in).....	.015 to .018	.015 to .018	.015 to .018
Cam Angle (degrees).....	27 to 32	27 to 32	34 to 40 (2)
Basic Timing.....	10°BTC	10°BTC	10°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.95; 0.390	1.95; 0.390	2.08; 0.390
Exh 1.60; 0.390		1.60; 0.390	1.74; 0.390
Tappet Clr—Valve Material.....	Int	Hydraulic Lifters; Sil F	
Exh		Hydraulic Lifters; 21-4N	
CARBURETOR			
Make, Model.....	Car BBD	Car APB	Car APB
Type and Size (in).....	2 Bbl; 1.56	4 Bbl; Pri 1.44, Sec 1.56	
TRANSMISSION			
Standard.....	Manual	TorqueFlite	TorqueFlite
Optional.....	TorqueFlite		
Axle Ratio with			
Manual.....	3.54	NA	NA
TorqueFlite.....	2.93; 3.31 Opt	2.93; 3.31 Opt	2.93(3); 3.31 Opt
CAPACITY			
Oil (Refill).....(qt)	5	5	5
Water (Incl heater).....(qt)	18	17	17
Manual Transmission.....(pt)	2.75		
Auto. Trans. ....(Refill-qt)	10.5	10.5	10.5
Rear Axle.....(pt)	3.5	3.5	3.5
Gasoline.....(gal)	23	23	23
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	122	126	126
Over-All Length.....(in)	216.6	220.6	220.9
Shipping Weight.....(lb)	3800	4010	4120
Tire Size—Recm Press.....(lb)	8.00x14-24-22(4)	8.50x14-22-22	9.00x14-22-22

- (1) 300 E model has special engine with two 4-bbl carburetors and special camshaft and 380 bhp @ 5000, 450 lb-ft @ 3600.
- (2) Dual breaker distributor, 27° to 32° each breaker.
- (3) 300 E model has 3.31 axle ratio.
- (4) 8.50x14 optional.

**CORVETTE
CAR MODEL**

Corvette

ENGINE

No. Cyl-Head Type	V-8-I
Bore and Stroke (in)	3.875 x 3.0
Displacement (cu in)	283
AMA Horsepower	48
Max Horsepower @ rpm	230 @ 4800 (1)
Max Torque, lb-ft @ rpm	300 @ 3000 (1)
Max bmep, lb/sq in	159.9
Compression Ratio	9.5 (1)

IGNITION

Spark Plug—Factory Eqpt	AC 46
Alternate	Champ J-12Y, AL A42
Spark Plug Gap (in)	.033 to .038
Firing Order	1-8-4-3-6-5-7-2
Distributor Model	DR 1110946 (2)
Breaker Gap (in)	.018
Cam Angle (degrees)	26 to 33
Basic Timing	4°BTC (3)
Battery—Volts, Ground	12, Negative

VALVES

Size and Lift (in)	Int 1.72; 0.399
	Exh 1.50; 0.399
Tappet Ctr-Valve Material	Int Hyd. Lifters; 8645
	Exh Hyd. Lifters; 21-4N

CARBURETOR

Make, Model	Carter WCFB (1)
Type and Size (in)	4 Bbl; 1.44

TRANSMISSION

Standard	3-Speed Manual (4)
Optional	Powerglide
Axle Ratio with	
Manual	3.70; 4.11 & 4.56 Opt
Powerglide	3.55

CAPACITY

Oil (Refill)	(qt) 5
Water (incl heater)	(qt) 16.5
Manual Transmission	(pt) 2 (4)
Auto Trans.	(Refill-qt) 4.5
Rear Axle	(pt) 4
Gasoline	(gal) 16.4

GENERAL DATA (Four-Door Sedan)

Wheelbase	(in) 102
Over-All Length	(in) 177.2
Shipping Weight	(lb) 2900 Convertible
Tire Size—Recm Press	(lb) 6.70x15-24-24

(1) The following engines are optional:

Optional Engine	BHP @ RPM	Torque @ RPM	CR
2-4 Bbl Carb.	245 @ 5000	300 @ 3800	9.5
Fuel Injection	250 @ 5000	305 @ 3800	9.5
2-4 Bbl, Special cam	270 @ 6000	285 @ 4200	9.5
Fuel Inj., Special cam	290 @ 6200	290 @ 4400	10.5

(2) DR 1110915 with fuel injection; 1110914 with fuel injection and special cam.**(3) 14°BTC with fuel injection and special cam.****(4) Four-speed manual transmission optional; refill capacity 3.5 pints.**

CAR MODEL	Firesweep MS1-L	Firedome MS2-M	Fireflite MS3-H
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.12 x 3.38	4.25 x 3.38	4.25 x 3.38
Displacement (cu in).....	361	383	383
AMA Horsepower.....	54.3	57.8	57.8
Max Horsepower @ rpm.....	295 @ 4600 (1)	305 @ 4600 (1)	325 @ 4600 (1)
Max Torque, lb-ft @ rpm.....	390 @ 2400 (1)	410 @ 2400 (1)	425 @ 2800 (1)
Max bmep, lb/sq in.....	162.9	161.4	167.3
Compression Ratio.....	10.0	10.1	10.1
IGNITION			
Spark Plug—Factory Eqpt.....	AL A-42	AL A-42	AL A-42
Alternate.....		Champ J-12Y, AC	44S
Spark Plug Gap (in).....	.035	.035	.035
Firing Order.....		1-8-4-3-6-5-7-2	
Distributor Model.....	AL IBP-4005B	AL IBP-4005B	AL IBP-4005B
Breaker Gap (in).....	.015 to .018	.015 to .018	.015 to .018
Cam Angle (degrees).....	27 to 32	27 to 32	27 to 32
Basic Timing.....	10° BTC	10° BTC	10° BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.95; 0.390	2.08; 0.390	2.08; 0.390
	Exh 1.60; 0.390	1.74; 0.390	1.74; 0.390
Tappet Clr—Valve Material.....	Int	Hydraulic Lifters; Sil F	
	Exh	Hydraulic Lifters; 21-4N	
CARBURETOR			
Make, Model.....	Carter BBD	Carter BBD	Carter AFB
Type and Size (in).....	2 Bbl; 1.56	2 Bbl; 1.56	4 Bbl; Pri 1.44, Sec 1.56
TRANSMISSION			
Standard.....	Manual	TorqueFlite	TorqueFlite
Optional.....	(2)		
Axle Ratio with			
Manual.....	3.54	NA	NA
PowerFlite.....	3.31; 2.93 Opt	NA	NA
TorqueFlite.....	3.31; 2.93 Opt	3.31; 2.93 Opt	3.31; 2.93 Opt
CAPACITY			
Oil (Refill).....(qt)	5	5	5
Water (incl heater).....(qt)	17	16	16
Manual Transmission.....(pt)	2.75		
Auto. Trans.....(Refill-qt)		PowerFlite 10; TorqueFlite 10.5	
Rear Axle.....(pt)	3.5	3.5	3.5
Gasoline.....(gal)	20	23	23
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	122	126	126
Over-All Length.....(in)	215.5	219.5	221.1
Shipping Weight.....(lb)	3670	3840	3920
Tire Size—Recm Press.....(lb)	8.00x14-22-22(3)		8.50x14-22-22(4)

(1) Adventurer has 350 bhp @ 5000, 425 lb-ft @ 3600. A special camshaft, AL A-32 spark plugs, AL IBS-4006C distributor, and two 4-bbl carburetors are used. Engine is optional on all other models.

(2) PowerFlite or TorqueFlite optional.

(3) 8.50x14-22-22 tires optional.

(4) 9.00x14-22-22 tires optional.

DODGE

CAR MODEL	Coronet 6	Coronet V-8	Royal and Custom Royal
ENGINE			
No. Cyl-Head Type.....	6-L	V-8-I	V-8-I
Bore and Stroke (in).....	3.25 x 4.63	3.85 x 3.31	4.12 x 3.38
Displacement (cu in).....	230	326 (1)	361 (1)
AMA Horsepower.....	25.3	49.9	54.3
Max Horsepower @ rpm.....	135 @ 3600	255 @ 4400 (1)	305 @ 4600 (1,2)
Max Torque, lb-ft @ rpm.....	205 @ 1200	350 @ 2400 (1)	400 @ 2800 (1,2)
Max bmep, lb/sq in.....	134.4	161.9	167.1
Compression Ratio.....	8.0	9.2 (1)	10.1 (1)
IGNITION			
Spark Plug—Factory Eqpt.....	AL AR-51	AL AR-42	AL A-42
Alternate.....	XJ-8, R45	XJ-12Y, R44S	J-12Y, 44S
Spark Plug Gap (in).....	.035	.035	.035
Firing Order.....	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model.....	AL IBR-4001	AL IBP-4003J	AL IBP-4005B
Breker Gap (in).....	.018 to .022	.015 to .018	.015 to .018
Cam Angle (degrees).....	36 to 42	27 to 32	27 to 32
Basic Timing.....	2-1/2°BTC	10°BTC	10°BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.53; 0.365 Exh 1.41; 0.365	1.84; 0.390 1.56; 0.386	1.95; 0.390 1.60; 0.390
Tappet Clr—Valve Material.....	Int 0.010" H; Sll F Exh 0.010" H; XCR	Hyd. Lifters; Sll F Hyd. Lifters; 21-4N	
CARBURETOR			
Make, Model.....	Car BBS	Strom WW3	Car AFB (2)
Type and Size (in).....	Sgl; 1.69	2 Bbl; 1.44	4 Bbl; 1.44
TRANSMISSION			
Standard.....	Manual	Manual	Manual
Optional.....	PowerFlite	PowerFlite or TorqueFlite	
Axle Ratio with.....			
Manual.....	3.73; 3.9 Opt	3.54; 3.31 Opt	3.54; 3.31 Opt
PowerFlite.....	3.73; 3.9 Opt	3.31; 3.54 Opt	3.31; 3.54 Opt
TorqueFlite.....	NA	2.93; 3.31 Opt	2.93; 3.31 Opt
CAPACITY			
Oil (Refill).....(qt)	5	5	5
Water (incl heater).....(qt)	14	21	17
Manual Transmission.....(pt)	2.75	2.75	2.75
Auto. Trans. (Refill-qt).....	10	(3)	(3)
Rear Axle.....(pt)	3.25	3.5	3.5
Gasoline.....(gal)	20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	122	122	122
Over-All Length.....(in)	217.4	217.4	217.4
Shipping Weight.....(lb)	3425	3615	3650
Tire Size—Recm Press.....(lb)	7.50x14-24-22(4)	8.00x14-22-22(4)	

- (1) D-500 engine, 383 cu. in. displacement, 10.0 compression ratio, 320 bhp @ 4600, 420 lb-ft @ 2800 with 4-bbl carburetor; 345 bhp @ 5000, 420 lb-ft @ 3600 with two 4-bbl carburetors available on all V-8 models.
- (2) Data given for Custom Royal engine. Royal has 2-bbl carburetor and develops 295 bhp @ 4600, 390 lb-ft @ 2400.
- (3) PowerFlite requires 10 quarts; Coronet V-8 with TorqueFlite, 9 quarts; and Royal and Custom Royal with TorqueFlite, 10-1/2 quarts.
- (4) 8.00x14 tires optional on Coronet; 8.50x14 tires optional on Royal and Custom Royal.

CAR MODEL	Ranger	Corsair	361 Power Option
ENGINE			
No. Cyl-Head Type	V-8-I (1)	V-8-I	V-8-I
Bore and Stroke (in)	3.75 x 3.30	4.00 x 3.30	4.03 x 3.50
Displacement (cu in)	292	332	361
AMA Horsepower	45.0	51.2	52.49
Max Horsepower @ rpm	200 @ 4400	225 @ 4400	303 @ 4600
Max Torque, lb-ft @ rpm	285 @ 2200	325 @ 2200	390 @ 2900
Max bmep, lb/sq in.	147.2	147.6	162.9
Compression Ratio	8.8	8.9	9.8
IGNITION			
Spark Plug—Factory Eqpt	Champ F-14Y	Champ F-11Y	Champ F-11Y
..... Alternate	85TS, BF82	AC 84TS, AL BF42	
Spark Plug Gap (in) .....	.032 to .036	.032 to .036	.032 to .036
Firing Order	1-5-4-8-6-3-7-2	1-5-4-2-6-3-7-8	
Distributor Model	B9FA-12127A	FEU 12127-J	FEU 12127-N
Breaker Gap (in) .....	.014 to .016	.014 to .016	.014 to .016
Cam Angle (degrees)	26 to 28.5	26 to 28.5	26 to 28.5
Basic Timing	(2)	3°BTC	6°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in)	Int 1.93; 0.359	2.03; 0.408	2.03; 0.408
..... Exh 1.51; 0.357		1.56; 0.408	1.56; 0.408
Tappet Ctr-Valve Material	Int 0.019" H; 8645	(3) Hyd. Lifters; 8645 (3)	
..... Exh 0.019" H; CAS		Hyd. Lifters; CAS (3)	
CARBURETOR			
Make, Model	Ford or Holley	Ford or Holley	Ford or Holley
Type and Size (in)	2 Bbl; 1.44	2 Bbl; 1.44	4 Bbl; 1.50
TRANSMISSION			
Standard	Manual	Manual	Mile-O-Matic or
Optional	Mile-O-Matic	Mile-O-Matic	Dual-Power Opt.
Axle Ratio with			
Manual	3.56	3.56	3.56
Mile-O-Matic	3.10	2.91	2.91
Dual-Power	NA	NA	2.91
CAPACITY			
Oil (Refill)	(qt) 5	5	5
Water (Incl heater)	(qt) 20	20	20
Manual Transmission	(pt) 3	3	3
Auto Trans. (Refill-qt)		Mile-O-Matic 11; Dual-Power 11.2	
Rear Axle	(pt) 4.5	4.5	4.5
Gasoline	(gal) 20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 120	120	120
Over-All Length	(in) 210.9	210.9	210.9
Shipping Weight	(lb) 3673	3696	3783 (5)
Tire Size—Recm Press.	(lb) 7.50x14-24-22 (4)	8.00x14-24-22	8.00x14-24-22

- (1) Six-cylinder 145 bhp engine available as an option on Ranger models and Villager station wagons. Specifications same as Ford 6.
- (2) 3°BTC with manual transmission. 6°BTC with automatic.
- (3) Valve heads and throats are aluminum coated.
- (4) 8.00x14 mandatory with automatic transmission.
- (5) Weight with Dual-Power automatic transmission.

FORD

CAR MODEL	Six	292 Cu. In. V-8	352 Power Option (1)
ENGINE			
No. Cyl-Head Type	6-I	V-8-I	V-8-I
Bore and Stroke (in)	3.62 x 3.60	3.75 x 3.30	4.00 x 3.50
Displacement (cu in)	223	292	352 (1)
AMA Horsepower	31.54	45.0	51.2
Max Horsepower @ rpm	145 @ 4000	200 @ 4400	300 @ 4600 (1)
Max Torque, lb-ft @ rpm	206 @ 2200	285 @ 2200	380 @ 2800 (1)
Max bmep, lb/sq in.	139.3	147.2	162.8
Compression Ratio	8.4	8.8	9.6 (1)
IGNITION			
Spark Plug—Factory Eqpt	Champ 870	Champ F-14Y	Champ F-11Y
Alternate	85T, BF82	85TS, DF82	84TS, BF42
Spark Plug Gap (in) .....	.032 to .036	.032 to .036	.032 to .036
Firing Order	1-3-5-6-2-4	1-5-4-8-6-3-7-2	1-5-4-2-6-3-7-8
Distributor Model	FET 12127-D	B0FA-12127-A	FEU 12127-N
Breaker Gap (in) .....	.024 to .026	.014 to .016	.014 to .016
Cam Angle (degrees)	35 to 38	26 to 28.5	26 to 28.5
Basic Timing	(2)	(2)	(2)
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in)	Int 1.78; 0.369	1.93; 0.359	2.03; 0.408
Exh 1.51; 0.369	1.51; 0.357	1.56; 0.408	
Tappet Cir-Valve Material ... Int	.019" H; 8645 (3)	.019" H; 8645 (3)	Hyd. Lifters; 8645 (3)
Exh	.019" H; CAS	.019" H; CAS	Hyd. Lifters; CAS (3)
CARBURETOR			
Make, Model	Holley	Ford or Holley	
Type and Size (in)	Sgl; 1.56	2 Bbl; 1.44	4 Bbl; 1.50
TRANSMISSION			
Standard	Manual	Manual	Manual
Optional	Fordomatic	Fordomatic or	Cruise-O-Matic
Axle Ratio with			
Manual	3.56	3.56	3.56 (4)
Overdrive	3.70	3.70	3.56 (4)
Fordomatic	3.56	3.10	2.91 (4)
Cruise-O-Matic	NA	3.10	2.69 (4)
CAPACITY			
Oil (Refill)	(qt) 4	5	5
Water (incl heater)	(qt) 16	20	20
Manual Transmission	(pt) 3 (5)	3 (5)	3 (5)
Auto Trans. (Refill-qt)	10	10	10
Rear Axle	(pt) 4.5	4.5	4.5
Gasoline	(gal) 20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 118	118	118
Over-All Length	(in) 208	208	208
Shipping Weight	(lb) 3415 (6)	3514 (6)	3557 (6)
Tire Size—Recm Press	(lb) 7.50x14-24-22 standard; 8.00x14-24-22 optional		

- (1) 352 cu. in. Power Option and 332 cu. in. Special Option engines available on all models. Data given for 352; 332 specifications same as shown for Edsel Corsair.
- (2) 4°BTC on 6 and 3°BTC on V-8's with manual or overdrive transmission. 6°BTC with automatic transmission.
- (3) Valve heads and throats are aluminum coated.
- (4) Manual transmission not available with 332 engine. 2.91 ratio used with Fordomatic and Cruise-O-Matic with 332 engine.
- (5) Capacity with overdrive 4.25 pints with 6 or 292 V-8; 4.75 with 352 V-8.
- (6) Weight given for Fairlane model with manual transmission.

CAR MODEL Imperial, Imperial Crown
and Imperial LeBaron

ENGINE

No. Cyl-Head Type.....	V-8-I
Bore and Stroke (in).....	4.18 x 3.75
Displacement (cu in).....	413
AMA Horsepower.....	55.9
Max Horsepower @ rpm.....	350 @ 4600
Max Torque, lb-ft @ rpm.....	470 @ 2800
Max bmep, lb/sq in.....	171.6
Compression Ratio.....	10.1

IGNITION

Spark Plug—Factory Eqpt.....	Auto-Lite A-42
Alternate.....	Champ J-12Y, AC 448
Spark Plug Gap (in).....	.035
Piring Order.....	1-3-4-3-6-5-7-2
Distributor Model.....	Auto-Lite IBS-4010A
Breaker Gap (in).....	.015 to .018
Cam Angle (degrees).....	34 to 40 (1)
Basic Timing.....	10°BTC
Battery—Volts, Ground.....	12, Negative

VALVES

Size and Lift (in).....	Int 2.08; 0.390
	Exh 1.74; 0.390
Tappet Ctr—Valve Material.....	Int Hydraulic Lifters; Sil P
	Exh Hydraulic Lifters; 21-4N

CARBURETOR

Make, Model.....	Carter AFB
Type and Size (in).....	4 Bbl; Pri 1.44, Sec 1.56

TRANSMISSION

Standard.....	TorqueFlite
Optional.....	
Axle Ratio with TorqueFlite.....	Std. 2.93; Opt. 3.31

CAPACITY

Oil (Refill).....	(qt) 5
Water (incl heater).....	(qt) 17
Manual Transmission.....	(pt) 1
Auto. Trans.....	(Refill-qt) 10.5
Rear Axle.....	(pt) 3.5
Gasoline.....	(gal) 23

GENERAL DATA (Four-Door Sedan)

Wheelbase.....	(in) 129
Over-All Length.....	(in) 226.3
Shipping Weight.....	(lb) 4830 (Crown)
Tire Size—Recm Press.....	(lb) 9.50x14-22-22 (2)

(1) Dual breaker distributor, 27° to 32° each breaker.

(2) 9.50x14-22-23 standard and 11.00x14-17-14 optional on early production models. All late models use 8.20x15-24-24.

LINCOLN-CONTINENTAL

CAR MODEL	Lincoln and Lincoln Premiere	Continental Mark IV
ENGINE		
No. Cyl-Head Type	V-8-I	V-8-I
Bore and Stroke (in)	4.30 x 3.70	4.30 x 3.70
Displacement (cu in)	430	430
AMA Horsepower	59.17	59.17
Max Horsepower @ rpm.....	350 @ 4400	350 @ 4400
Max Torque, lb-ft @ rpm.....	490 @ 2800	490 @ 2800
Max bmep, lb/sq in.....	171.8	171.8
Compression Ratio	10.0	10.0
IGNITION		
Spark Plug—Factory Eqpt	Champ F-11Y	Champ F-11Y
Alternate.....	AC 84TS, AL BF42	
Spark Plug Gap (in).....	.032 to .036	.032 to .036
Firing Order	1-5-4-2-6-3	7-8
Distributor Model	FEW 12127H	FEW 12127H
Breaker Gap (in) .....	.014 to .016	.014 to .016
Cam Angle (degrees)	26 to 28.5	26 to 28.5
Basic Timing	6°BTC	6°BTC
Battery—Volts, Ground	12, Negative	12, Negative
VALVES		
Size and Lift (in).....	Int 2.085; 0.408	2.085; 0.408
	Exh 1.775; 0.408	1.775; 0.408
Tappet Clr-Valve Material ...	Int Hyd. Lifters; SAE 8645 Aluminum Coated	
	Exh Hyd. Lifters; Cast Austenitic Steel Aluminum Coated	
CARBURETOR		
Make, Model	Carter AFB	Carter AFB
Type and Size (in).....	4 Bbl; 1.56 Pri, 1.69 Sec	
TRANSMISSION		
Standard	Twin-Range Turbo Drive	
Optional		
Axle Ratio with Turbo Drive	2.89	2.89
CAPACITY		
Oil (Refill)	(qt) 5	5
Water (incl heater)	(qt) 26	26
Auto Trans.	(Refill-qt) 10.5	10.5
Rear Axle	(pt) 4.8	4.8
Gasoline	(gal) 22	22
GENERAL DATA (Four-Door Sedan)		
Wheelbase	(in) 131	131
Over-All Length	(in) 227.1	227.1
Shipping Weight	(lb) 4823 (1)	5061
Tire Size—Recm Press.....	(lb) 9.50x14-24-24	9.50x14-24-24

(1) Weight given for Lincoln; Premiere model weighs 4887.

MERCURY

CAR MODEL	Monterey	Montclair	Park Lane
ENGINE			
No. Cyl-Head Type	V-8-I	V-8-I	V-8-I
Bore and Stroke (in)	3.8 x 3.44	4.3 x 3.3	4.3 x 3.7
Displacement (cu in)	312 (1)	383	430
AMA Horsepower	46.21	59.17	59.17
Max Horsepower @ rpm	210 @ 4400 (1)	322 @ 4600	345 @ 4400
Max Torque, lb-ft @ rpm	325 @ 2200 (1)	420 @ 2800	480 @ 2800
Max bmeq, lb/sq in	157.1	165.4	168.3
Compression Ratio	8.75 (1)	10.0	10.0
IGNITION			
Spark Plug—Factory Eqpt	Champ F-14Y	Champ F-11Y	Champ F-11Y
Alternate	85TS, BF82	AC 84TS, AL BF42	
Spark Plug Gap (in)	.032 to .036	.032 to .036	.032 to .036
Firing Order	1-5-4-8-6-3-7-2	1-5-4-2-6-3-7-8	
Distributor Model	B9FA-12127A	FEW-12127H	FEW-12127H
Breaker Gap (in)	.015	.015	.015
Cam Angle (degrees)	26 to 28.5	26 to 28.5	26 to 28.5
Basic Timing	(2)	6°BTC	6°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in)	Int 1.93; 0.406 Exh 1.51; 0.404	2.085; 0.408 1.775; 0.408	2.085; 0.408 1.775; 0.408
Tappet Ctr-Valve Material	Int 0.019" H; 8645 (3) Exh 0.019" H; CAS	Hyd. Lifters; 8645 (3) Hyd. Lifters; CAS (3)	
CARBURETOR			
Make, Model	Holley 4150	Ford	Carter AFB
Type and Size (in)	2 Bbl; 1.44	4 Bbl; 1.56	4 Bbl; 1.56 Pri, 1.69 Sec
TRANSMISSION			
Standard	Manual	Merc-O-Matic	Multi-Drive
Optional	Merc-O-Matic	Multi-Drive	
Axle Ratio with			
Manual	3.56; 3.89 Opt (4)	NA	NA
Merc-O-Matic	3.10 (4)	2.71; 2.91 Opt	NA
Multi-Drive		2.71; 2.91 Opt	2.71; 2.91 Opt
CAPACITY			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 21	22	22
Manual Transmission	(pt) 3		
Auto Trans. (Refill-qt)	10	11	11.75
Rear Axle	(pt) 4.50	4.50	4.50
Gasoline	(gal) 20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 126	126	128
Over-All Length	(in) 217.8	217.8	222.8
Shipping Weight	(lb) 3902	4158	4388
Tire Size—Recm Press	(lb) 8.00x14-24-24(5)	8.50x14-24-24	8.50x14-24-24

- 383 cu. in., 10 to 1 compression ratio, 2-bbl carburetor engine with 280 bhp @ 4400, 400 lb-ft @ 2400 optional.
- 3°BTC with manual transmission; 6°BTC with Merc-O-Matic.
- Valves have aluminum coated heads and throats.
- 3.22 with manual transmission and 2.71 with Merc-O-Matic when 383 cu. in. engine is used.
- 8.50x14 used with 383 cu. in. engine and automatic transmission.

OLDSMOBILE

CAR MODEL	Dynamic 88	Ninety-Eight	Super 88
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.0 x 3.69	4.125 x 3.69	4.125 x 3.69
Displacement (cu in).....	371	394	394
AMA Horsepower.....	51	54	54
Max Horsepower @ rpm.....	270 @ 4600 (1)	315 @ 4600	315 @ 4600
Max Torque, lb-ft @ rpm.....	390 @ 2400 (1)	435 @ 2800	435 @ 2800
Max bmep, lb/sq in.....	158.5	166.5	166.5
Compression Ratio.....	9.75	9.75	9.75
IGNITION			
Spark Plug—Factory Eqpt.....	AC 44	AC 44	AC 44
Alternate.....		Champ J-12Y, AL	A43
Spark Plug Gap (in).....	.030	.030	.030
Firing Order.....		1-8-7-3-6-5-4-2	
Distributor Model.....	DR 1110931	DR 1110931	DR 1110931
Breaker Gap (in).....	.016	.016	.016
Cam Angle (degrees).....	28 to 32	28 to 32	28 to 32
Basic Timing.....	5°BTC @ 850 rpm	with vacuum disconnected	
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.875; 0.435	1.875; 0.435	1.875; 0.435
	Exh 1.562; 0.437	1.562; 0.437	1.562; 0.437
Tappet Clr—Valve Material..	Int Hydraulic Lifters; SAE 3140 or SAE 8645	Hydraulic Lifters; 21-4N	
	Exh		
CARBURETOR			
Make, Model.....	RP 2GC (1)	RP 4GC	RP 4GC
Type and Size (in).....	2 Bbl; 1.69	4 Bbl; 1.56	Pri, 1.69 Sec
TRANSMISSION			
Standard.....	Manual	Manual	Hydra-Matic
Optional.....	Hydra-Matic	Hydra-Matic	None
Axle Ratio with			
Manual.....	3.64	3.64	NA
Hydra-Matic.....	3.08	3.23	3.42
CAPACITY			
Oil (Refill).....(qt)	4	4	4
Water (incl heater).....(qt)	21	21	21
Manual Transmission.....(pt)	2.5	2.5	
Auto. Trans. ....(Refill-qt)	11	11	11
Rear Axle.....(pt)	5	5	5
Gasoline.....(gal)	20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	123	123	126.3
Over-All Length.....(in)	218.4	218.4	223
Shipping Weight.....(lb)	4162	4202	4433
Tire Size—Recm Press.....(lb)	8.50x14-22-20(2)	9.00x14-22-20(3)	
(1) 300 bhp @ 4600, 410 lb-ft @ 2800 with optional Rochester 4GC 4-bbl carburetor.			
(2) 9.00x14 optional.			
(3) 9.50x14 optional.			

PLYMOUTH

CAR MODEL	Savoy and Belvedere 6	Savoy, Belvedere and Fury V-8	Golden Commando Engine Option
ENGINE			
No. Cyl-Head Type	6-L	V-8-I	V-8-I
Bore and Stroke (in)	3.25 x 4.63	3.91 x 3.31	4.12 x 3.38
Displacement (cu in)	230	318	361
AMA Horsepower	25.3	48.9	54.3
Max Horsepower @ rpm	132 @ 3600	230 @ 4400 (1)	305 @ 4600
Max Torque, lb-ft @ rpm	205 @ 1200	340 @ 2400 (1)	395 @ 3000
Max bmep, lb/sq in	134.4	161.2	165.0
Compression Ratio	8.0	9.0	10.0
IGNITION			
Spark Plug—Factory Eqpt	AL AR-51	AL AR-42	AL A-32
Alternate	XJ-8, R45	XJ-12Y, R44S	J-8Y, 42S
Spark Plug Gap (in)	.035	.035	.035
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model	AL IBR-4001	AL IBP-4003F (1)	AL IBS-4006C
Breaker Gap (in)	.018 to .022	.015 to .018	.015 to .018
Cam Angle (degrees)	36 to 42	27 to 32	27 to 32
Basic Timing	2-1/2°BTC	10°BTC	7-1/2°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in)	Int 1.53; 0.365 Exh 1.41; 0.365	1.84; 0.390 1.56; 0.386	1.95; 0.390 1.60; 0.390
Tappet Ctr—Valve Material	Int 0.010" H; Sil P	0.010" H; Sil P	Hyd. Lifters; Sil P
	Exh 0.010" H; XCR	0.018" H; 21-4N	Hyd. Lifters; 21-4N
CARBURETOR			
Make, Model	Car BBS	Car BBD (1)	Car AFB
Type and Size (in)	Sgl; 1.69	2 Bbl; 1.44	4 Bbl; 1.44
TRANSMISSION			
Standard	Manual	Manual	Manual
Optional	PowerFlite	PF or TF	TorqueFlite
Axis Ratio with Manual	3.73; 3.9 & 4.1 Opt	3.54; 3.91 Opt	3.31
Overdrive	4.1; 3.9 Opt	3.91	NA
PowerFlite	3.73; 3.9 Opt	3.31; 3.91 Opt	NA
TorqueFlite	NA	2.93; 3.31 Opt	3.31; 2.93 Opt
CAPACITY			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 14	21	17
Manual Transmission	(pt) 2.75 (2)	2.75 (2)	2.75
Auto. Trans.	(Refill-qt) 10	(3)	10.5
Rear Axle	(pt) 3.25	3.5	3.5
Gasoline	(gal) 20	20	20
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 118	118	118
Over-All Length	(in) 208.2 (4)	208.2 (4)	208.2 (4)
Shipping Weight	(lb) 3275	3430	3470
Tire Size—Recm Press.	(lb) 7.50x14-22-22(5)	7.50x14-24-22(5)	

- (1) Optional power pak engine with 4-bbl Carter AFB carburetor, special camshaft and an Auto-Lite IBP-4003H distributor, 260 bhp @ 4400, 345 lb-ft @ 2800 available on all V-8 models.
- (2) 3/4 pint additional with overdrive.
- (3) PowerFlite 10 quarts; TorqueFlite 9 quarts refill.
- (4) 210 inch over-all with optional front and rear bumper guards.
- (5) 8.00x14 tires optional.

PONTIAC

CAR MODEL	Catalina	Star Chief	Bonneville
ENGINE			
No. Cyl-Head Type.....	V-8-I	V-8-I	V-8-I
Bore and Stroke (in).....	4.06 x 3.75	4.06 x 3.75	4.06 x 3.75
Displacement (cu in).....	389	389	389
AMA Horsepower.....	52.8	52.8	52.8
Max Horsepower @ rpm.....	280 @ 4400 (1)	280 @ 4400 (1)	300 @ 4600 (1)
Max Torque, lb/ft @ rpm.....	408 @ 2800 (1)	408 @ 2800 (1)	420 @ 2800 (1)
Max bmep, lb/sq in.....	158.2	158.3	164.4
Compression Ratio.....	10.0 (1)	10.0 (1)	10.0 (1)
IGNITION			
Spark Plug—Factory Eqpt.....	AC 45	AC 45	AC 45
Alternate.....		AL A52, Champ J-18Y	
Spark Plug Gap (in).....	.033 to .038	.033 to .038	.033 to .038
Firing Order.....		1-8-4-3-6-5-7-2	
Distributor Model.....		Delco-Remy 1110943 (2)	
Breaker Gap (in).....	.016	.016	.016
Cam Angle (degrees).....	28 to 32	28 to 32	28 to 32
Basic Timing.....	6° BTC	6° BTC	6° BTC
Battery—Volts, Ground.....	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in).....	Int 1.88; 0.40	1.88; 0.40	1.88; 0.40
Exh.....	1.60; 0.40	1.60; 0.40	1.60; 0.40
Tappet Ctr—Valve Material.....	Int Hyd. Lifters; Manganese Moly. Aluminum		
Exh.....	Treated		
	Hyd. Lifters; TXCR Aluminum Treated		
CARBURETOR			
Make, Model.....	RP 2GC (1)	RP 2GC (1)	Car AFB (1)
Type and Size (in).....	2 Bbl; 1.69	2 Bbl; 1.69	4 Bbl; 1.44 Pri, 1.69 Sec
TRANSMISSION			
Standard.....	Manual	Manual	Manual
Optional.....	Hydra-Matic	Hydra-Matic	Hydra-Matic
Axle Ratio with			
Manual.....		3.23 Std; 3.08 and 3.42 Opt (3)	
Hydra-Matic.....		3.08 Std; 2.87 and 3.23 Opt (4)	
CAPACITY			
Oil (Refill).....(qt)	5	5	5
Water (incl heater).....(qt)	22.4	22.4	22.4
Manual Transmission.....(pt)	1.8	1.8	1.8
Auto. Trans.....(Refill-qt)	9.2	9.2	9.2
Rear Axle.....(pt)	5.5	5.5	5.5
Gasoline.....(gal)	21.5	21.5	21.5
GENERAL DATA (Four-Door Sedan)			
Wheelbase.....(in)	122	124	124
Over-All Length.....(in)	213.7	220.7	220.7
Shipping Weight.....(lb)	3940	3990	4070
Tire Size—Recm Press.....(lb)		8.00x14-22-23 Std; 8.50x14-20-20 Opt	

(1) Engine specifications listed for the standard engine when Hydra-Matic transmission is specified. The following optional engines are available:

BHP @ RPM	Torque @ RPM	CR	Carburetor	Transmission
245 @ 4200	392 @ 2000	8.6	2 Bbl	SM
260 @ 4200	400 @ 2800	8.6	4 Bbl	SM
315 @ 4600	425 @ 3200	10.5	3-2 Bbl	SM, HM
330 @ 4800	420 @ 2800	10.5	4 Bbl	SM, HM
345 @ 4800	425 @ 3200	10.5	3-2 Bbl	SM, HM
215 @ 3600	390 @ 2000	8.6	2 Bbl	HM

SM = Synchronesh; HM = Hydra-Matic transmission

(2) Delco-Remy 1110941 distributor used on first 70,000 engines except for those with the economy engine.

(3) 3.64 standard with 330 and 345 bhp engines.

(4) 2.87 is only ratio available with 215 bhp economy engine.

Brief Passenger Car Data for 1959

January 1, 1959

RAMBLER

CAR MODEL	Rambler American	Rambler Six
ENGINE		
No. Cyl-Head Type.....	6-L	6-I
Bore and Stroke (in).....	3.125 x 4.25	3.125 x 4.25
Displacement (cu in).....	195.6	195.6
AMA Horsepower.....	23.44	23.44
Max Horsepower @ rpm.....	90 @ 3800	127 ⁴ / ₁₆ 4200 (1)
Max Torque, lb-ft @ rpm.....	150 @ 1600	180 ⁴ / ₁₆ 1600 (1)
Max bmep, lb/sq in.....	115.7	138.5
Compression Ratio.....	8.0	8.7
IGNITION		
Spark Plug—Factory Eqpt.....	Auto-Lite AL-7 or Champion H-10	
Alternate.....	AC 45L	
Spark Plug Gap (in).....	.033 to .037	.033 to .037
Firing Order.....		1-5-3-6-2-4
Distributor Model.....	DR 1112426	DR 1110246
Breaker Gap (in).....	.016	.016
Cam Angle (degrees).....	28 to 35	28 to 35
Basic Timing.....	3° BTC	5° BTC
Battery—Volts, Ground.....	12, Negative	12, Negative
VALVES		
Size and Lift (in).....	Int 1.469; 0.324 Exh 1.281; 0.322	1.594; 0.366 1.343; 0.361
Tappet Clr—Valve Material.....	Int 0.016" C; Sll 1 or XB Exh 0.018" C; 2112N	0.012" H; Sll 1 or XB 0.016" H; 2112N
CARBURETOR		
Make, Model.....	Carter YF	Holley 1904-PC (1)
Type and Size (in).....	Sgl; 1.44	Sgl; 1.44 (1)
TRANSMISSION		
Standard.....	Manual	Manual
Optional.....	Overdrive or Flash-O-Matic	
Axle Ratio with		
Manual.....	3.31 ; 378 Opt	3.78; 4.11 & 4.38 Opt
Overdrive.....	3.78; 4.11 Opt	4.11; 4.38 Opt
Flash-O-Matic.....	3.31	3.31; 3.78 Opt
CAPACITY		
Oil (Refill).....(qt)	4	4
Water (incl heater).....(qt)	12	11
Manual Transmission.....(pt)	1.5 (2)	1.5 (2)
Auto. Trans. ....(Refill-qt)	10	10
Rear Axle.....(pt)	3	3
Gasoline.....(gal)	20	20
GENERAL DATA (Four-Door Sedan)		
Wheelbase.....(in)	100	108
Over-All Length.....(in)	178.32	191.15
Shipping Weight.....(lb)	2492	2951
Tire Size—Recm Press.....(lb)	5.90x15-24-24(3)	6.40x15-24-24(4)
(1) 138 bhp @ 4500, 185 lb-ft @ 1800 with optional Carter WCD 2-bbl carburetor, 1.31 barrel size.		
(2) 1.25 pints additional with overdrive.		
(3) 6.40x15 tires optional on sedan, standard on station wagon.		
(4) 6.70x15 tires optional.		

RAMBLER

CAR MODEL	Rambler Rebel 5920	Rambler Ambassador 5980
ENGINE		
No. Cyl-Head Type	V-8-I	V-8-I
Bore and Stroke (in)	3.5 x 3.25	4.0 x 3.25
Displacement (cu in)	250	327
AMA Horsepower	39.2	51.2
Max Horsepower @ rpm	215 @ 4900	270 @ 4700
Max Torque, lb/ft @ rpm	260 @ 2500	360 @ 2600
Max bmep, lb/sq in	156.8	166.0
Compression Ratio	8.7	9.7
IGNITION		
Spark Plug—Factory Eqpt	Auto-Lite AL-7 or Champion H-10	
Alternate	AC 45L	
Spark Plug Gap (in)	.033 to .037	.033 to .037
Firing Order	1-8-4-3-6-5-7-2	
Distributor Model	DR 1110923	DR 1110887
Breaker Gap (in)	.016	.016
Cam Angle (degrees)	28 to 32	28 to 32
Basic Timing	TDC	5° BTC
Battery—Volts, Ground	12, Negative	12, Negative
VALVES		
Size and Lift (in)	Int 1.787; 0.375 Exh 1.406; 0.375	1.787; 0.375 1.406; 0.375
Tappet Clr—Valve Material	Int 0.012" H; Sil 1 or XB Exh 0.014" H; 21-4N	Hyd. Lifters; Sil 1 or XB Hyd. Lifters; 21-4N
CARBURETOR		
Make, Model	Holley 4150C	Holley 4150C
Type and Size (in)	4 Bbl; 1.44	4 Bbl; 1.44
TRANSMISSION		
Standard	Manual	Manual
Optional	Overdrive or Flash-O-Matic	
Axle Ratio with		
Manual	4.10; 4.44 Opt	3.54; 4.10 Opt
Overdrive	4.10; 4.44 Opt	3.54; 4.10 Opt
Flash-O-Matic	3.15; 3.55 Opt	3.15; 2.87 Opt
CAPACITY		
Oil (Refill)	(qt) 4	4
Water (incl heater)	(qt) 21	20
Manual Transmission	(pt) 2.25 (1)	4 (2)
Auto. Trans. (Refill-qt)	10	11
Rear Axle	(pt) 4	4
Gasoline	(gal) 20	20
GENERAL DATA (Four-Door Sedan)		
Wheelbase	(in) 108	117
Over-All Length	(in) 191.15	200.15
Shipping Weight	(lb) 3287	3437
Tire Size—Recm Press	(lb) 7.50x14-24-24	8.00x14-22-20

(1) Overdrive requires 1.25 pints additional.

(2) Total capacity of overdrive and manual transmission is 4 pints.

STUDEBAKER Silver Hawk V-8

CAR MODEL	Lark 6	Lark V-8	
ENGINE			
No. Cyl-Head Type	6-L	V-8-I	V-8-I (1)
Bore and Stroke (in)	3.0 x 4.0	3.56 x 3.25	3.56 x 3.25
Displacement (cu in)	169.6	259.2	259.2
AMA Horsepower	21.6	40.6	40.6
Max Horsepower @ rpm	90 @ 4000	180 @ 4500 (2)	180 @ 4500 (2)
Max Torque, lb-ft @ rpm	145 @ 2000	260 @ 2800 (2)	260 @ 2800 (2)
Max bmep, lb/sq in	128.9	151.3	151.3
Compression Ratio	8.3	8.8	8.8
IGNITION			
Spark Plug—Factory Eqpt	Champ J-7	Champ H-18Y	Champ H-18Y
Alternate	AC 44, AL A5	AC 45LS	AL AL82
Spark Plug Gap (in)	.028 to .033	.033 to .038	.033 to .038
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Distributor Model	AL IAT-4403	DR 1110864	DR 1110864
Breaker Gap (in)	.020	.013 to .018	.013 to .018
Cam Angle (degrees)	38 to 40	28 to 34	28 to 34
Basic Timing	2°BTC	4°BTC	4°BTC
Battery—Volts, Ground	12, Negative	12, Negative	12, Negative
VALVES			
Size and Lift (in)	Int 1.34; 0.34 Exh 1.28; 0.34	1.66; 0.359 1.53; 0.359	1.66; 0.359 1.53; 0.359
Tappet Clr-Valve Material	Int 0.018" C; 8645 Exh 0.018" C; 2112	0.026" C or 0.024" H; 8645 0.026" C or 0.024" H; 2112N	
CARBURETOR			
Make, Model	Carter AS	Strom WW (2)	Strom WW (2)
Type and Size (in)	Sgl; 1.25	2 Bbl; 1.25	2 Bbl; 1.25
TRANSMISSION			
Standard	Manual	Manual	Manual
Optional		Overdrive or Flightomatic	
Axle Ratio with			
Manual	3.54 (3)	3.31	3.54
Overdrive	3.73 (3)	3.54	3.73
Flightomatic	3.54	3.31	3.31
CAPACITY			
Oil (Refill)	(qt) 5	5	5
Water (incl heater)	(qt) 12	18	18
Manual Transmission	(pt) 2.3 (4)	3.8 (5)	3.8 (5)
Auto Trans.	(Refill-qt) 9	9	9
Rear Axle	(pt) 2.5	2.5	2.5
Gasoline	(gal) 18	18	18
GENERAL DATA (Four-Door Sedan)			
Wheelbase	(in) 108.5	108.5	120.5
Over-All Length	(in) 175	175	204
Shipping Weight	(lb) 2605	2924	3140
Tire Size—Recm Press.	(lb) 5.90x15-24-20(6)	6.40x15-24-20(6)	6.70x15-24-20

- (1) Silver Hawk available with six-cylinder engine as shown for Lark 6 or V-8 engine as listed below.
- (2) 195 bhp @ 4500 rpm, 265 lb-ft @ 3000 rpm with optional 4-barrel Carter WCFB carburetor and dual exhaust pipes.
- (3) Royal Deluxe models use 3.73 axle ratio with manual and 4.1 with overdrive.
- (4) 3.15 pints total capacity with overdrive.
- (5) 4.06 pints total capacity with overdrive.
- (6) 6.40x15 optional on Lark 6 and 6.70x15 optional on Lark V-8.

THUNDERBIRD

CAR MODEL	Hardtop and Convertible	Power Option Engine
ENGINE		
No. Cyl-Head Type	V-8-I	V-8-I
Bore and Stroke (in)	4.00 x 3.50	4.30 x 3.70
Displacement (cu in)	352	430
AMA Horsepower	51.2	59.17
Max Horsepower @ rpm	300 @ 4600	350 @ 4400
Max Torque, lb-ft @ rpm	380 @ 2800	490 @ 2800
Max bmep, lb/sq in.	162.8	171.8
Compression Ratio	9.6	10.0
IGNITION		
Spark Plug—Factory Eqpt	Champ F-11Y	Champ F-11Y
Alternate		AL BF42, AC 84TS
Spark Plug Gap (in) .....	.032 to .036	.032 to .036
Firing Order		1-5-4-2-6-3-7-8
Distributor Model	FEU 12127N	FEW 12127H
Breaker Gap (in) .....	.014 to .016	.014 to .016
Cam Angle (degrees)	26 to 28.5	26 to 28.5
Basic Timing	(1)	6°BTC
Battery—Volts, Ground	12, Negative	12, Negative
VALVES		
Size and Lift (in)	Int 2.03; 0.408	2.085; 0.408
	Exh 1.56; 0.408	1.775; 0.408
Tappet Clr-Valve Material	Int Hyd. Lifters; 8645 Aluminum Coated	Aluminum Coated
	Exh Hyd. Lifters; CAS Aluminum Coated	
CARBURETOR		
Make, Model	Ford or Holley	Carter AFB
Type and Size (in)	4 Bbl; 1.50	4 Bbl; Pri 1.56, Sec. 1.69
TRANSMISSION		
Standard	Manual	Cruise-O-Matic
Optional	Cruise-O-Matic	
Axle Ratio with		
Manual	3.70	NA
Overdrive	3.70	NA
Cruise-O-Matic	3.10	2.91
CAPACITY		
Oil (Refill)	(qt) 5	5
Water (Incl heater)	(qt) 20.5	23.5
Manual Transmission	(pt) 3.75 (2)	
Auto Trans. (Refill-qt)	10	10
Rear Axle	(pt) 4.5	4.5
Gasoline	(gal) 20	20
GENERAL DATA (Four-Door Sedan)		
Wheelbase	(in) 113	113
Over-All Length	(in) 205.3	205.3
Shipping Weight	(lb) 3754 Hardtop	3958
Tire Size—Recm Press.	(lb) 8.00x14-24-24	8.00x14-24-24
(1) 3°BTC with manual and overdrive transmission; 6°BTC with Cruise-O-Matic.		
(2) Overdrive requires .75 pints.		

AUTOMATIC TRANSMISSIONS

American Motors

Flash-O-Matic (Rambler)

This transmission is composed of a three-element torque converter and a multiple pinion compound planetary gearset to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.12:1. In D-1 position drive starts through the torque converter and low gear ratio (2.40:1), shifts to torque converter plus intermediate ratio (1.47:1) and then shifts to converter only. In D-2 position transmission starts in intermediate gear and shifts to direct. The shifts are automatic and vary with car speed and accelerator position. The transmission can be manually locked in low range for added pulling power and engine braking.

Chrysler Corporation

PowerFlite (DeSoto, Dodge, Plymouth)

This transmission consists of a three-element torque converter and two planetary gearsets providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.2 to 2.6:1 depending on the blade angle of the converter used. Normal drive starts through the torque converter and low gear ratio (1.72:1) and automatically shifts to converter only, depending on throttle opening and car speed. The transmission can be manually locked in low range for extra pulling power and engine braking.

TorqueFlite (Chrysler, DeSoto, Dodge, Imperial, Plymouth)

This transmission consists of a three-element torque converter and two planetary gearsets providing three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.2. Normal drive starts through the converter and low gear ratio (2.45:1), shifts to torque converter plus intermediate ratio (1.45:1) and then shifts to converter only. The shifts are automatic and vary with car speed and accelerator position. The transmission may be manually locked in low or intermediate gear for added pulling power or engine braking.

Ford Motor Company

Fordomatic and Mile-O-Matic (Ford and Edsel)

This transmission consists of a three-element torque converter with a multiple pinion planetary gearset providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.5 to 2.6:1. Normal drive starts through the torque converter and low gear ratio (1.75:1) and automatically shifts to converter only, depending on throttle opening and car speed. The transmission can be manually locked in low range for extra pulling power and engine braking.

Merc-O-Matic (Mercury Monterey and Montclair)

This transmission is composed of a three-element torque converter and a multiple pinion planetary gear system to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.1. Normal drive starts through the torque converter and intermediate gear ratio (1.47:1) and automatically shifts to converter only, depending on throttle opening and car speed. Low gear (2.40:1) can be engaged for added acceleration from a standstill or from low vehicle speeds by depressing the accelerator to the floor. The transmission may be manually locked in low range for added pulling power or engine braking.

Cruise-O-Matic, Dual Power, Multi-Drive and Turbo-Drive (Ford, Edsel, Mercury, Lincoln)

This transmission is composed of a three-element torque converter and a multiple pinion planetary gear system to produce three forward speeds and reverse. The drive is always through the converter. Normal drive in D-1 position starts through the torque converter and low gear ratio, shifts to torque converter plus intermediate ratio and then shifts to converter only. In D-2 position the transmission starts in intermediate gear and then shifts to direct. The shifts are automatic and vary with car speed and accelerator position.

General Motors Corporation

Twin Turbine (Buick)

This transmission consists of a five-element torque converter and a multiple pinion planetary gearset providing low and reverse ratios. The two turbine elements of the converter are interconnected through a planetary gearset of 1.6:1 ratio. The stator vanes are pivoted in the vane carrier and their pitch is controlled by a hydraulic piston in response to accelerator position. The maximum torque multiplication of the converter is 3.4 in the high stator pitch and 3.1 in the low pitch position. No additional gearing, other than the internal gearing between the turbines, is used for normal forward driving. The drive is always through the converter. Low range 1.82:1 gear ratio can be manually engaged for extra pulling power and engine braking.

Triple Turbine (Buick)

This transmission consists of a five-element torque converter consisting of three turbines, a variable pitch stator and a pump. Two of the turbines are connected individually to the output shaft through the elements of two planetary gearsets, while the third turbine is directly connected to the output shaft. A multiple-pitch stator provides an infinite number of positions from low to high angle in response to throttle position. The maximum torque multiplication of the converter is 4.5:1. No additional gearing other than the internal gearing between the turbines and the output shaft is provided. A hydraulic retarder is used for downhill braking.

Powerglide (Chevrolet)

This transmission consists of a three-element torque converter with a multiple pinion planetary gearset providing low and reverse ratios. The drive is always through the converter which has a maximum torque multiplication of 2.1:1. Normal drive starts through the torque converter and low gear ratio (1.82:1) and automatically shifts to converter only, depending on throttle opening and car speed. The transmission can be manually locked in low range for extra pulling power and engine braking.

Turboglide (Chevrolet)

This transmission consists of a five-element torque converter consisting of three turbines, a variable pitch stator and a torque converter pump. Two of the turbines are connected individually to the output shaft through the elements of two simple planetary gearsets. The stator vanes are pivoted in the vane carrier and their pitch is controlled by a hydraulic piston in response to accelerator position. The maximum torque multiplication of the converter is 4.2:1 in the high stator pitch position and 3.8 in the low position. No additional gearing other than the internal gearing between the turbines and the output shaft is provided. A hydraulic retarder is used for downhill braking.

Hydra-Matic (Cadillac, Oldsmobile, Pontiac)

This transmission consists of two fluid couplings and three planetary gearsets providing four forward speeds and reverse. The large fluid coupling is used for the transmission of power as in the original Hydra-Matic. The small fluid coupling acts as a clutch in the forward planetary gearset. The shifts are automatic and vary with car speed and accelerator position. Ratios are as follows: first, 3.97:1; second, 2.55:1; third, 1.55:1; and fourth, 1:1. The transmission may be locked in either second or third gear for added pulling power and for downhill braking.

Studebaker-Packard Corporation

Flightomatic (Studebaker)

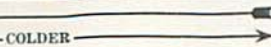
This transmission is composed of a three-element torque converter and a multiple pinion compound planetary gearset to produce three forward speeds and reverse. The drive is always through the converter which has a maximum torque multiplication of 2.15:1. Normal drive starts through the torque converter and low gear ratio (2.40:1), shifts to torque converter plus intermediate ratio (1.47:1) and then shifts to converter only. The shifts are automatic and vary with car speed and accelerator position. The transmission can be manually locked in low range for added pulling power and engine braking.

SPARK PLUG HEAT

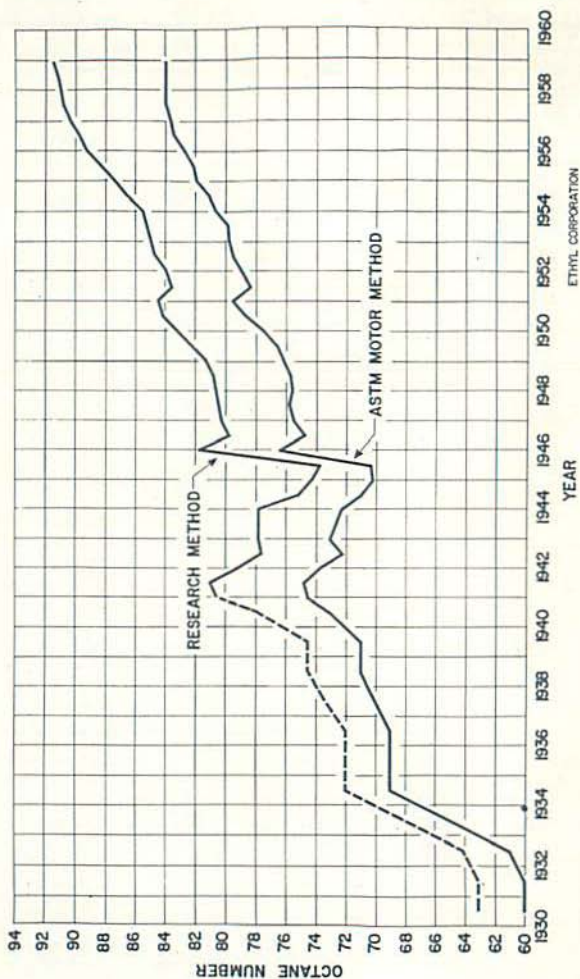
		← HOTTER →			
AC	10 mm 1/4" Reach	M-8			
	14 mm 3/8" Reach	C49	48 48X	46-5 46 R46 R46S*	R45 45S* 45 R45S*
	14 mm 1/2" Reach	47L			45L
	14 mm 3/4" Reach	47XL		46XL	45XL 45XLR R45XLS*
	18 mm 60° Seat	86T 86TS*			85T R85T 85TS* R85TS*
CHAM- PION	10 mm 1/4" Reach	Y-8		UY-6	Y-6
	14 mm 3/8" Reach	J-14	J-12 UJ-12	J-11	J-8 J-18Y*
	14 mm 1/2" Reach	H-12		H-11	H-10 H-18Y*
	14 mm 3/4" Reach	N-18			
	18 mm 60° Seat	S70 F-14Y*			
AUTO- LITE	10 mm 1/4" Reach	P6 PR6			
	14 mm 3/8" Reach	A11	AR10 AT10	A9 AR8 AR82* AR80 AR82* 4S-140 AT8	A7
	14 mm 1/2" Reach	AL11	AL9	ARL8 ARL82* ATL8 AL82*	AL7
	14 mm 3/4" Reach	4GS125		4GS-150 AGR82*	AG7
	18 mm 60° Seat	BRF8 BF82* BRF82*			BF7

* Plugs with extended gap design

RANGE COMPARISONS

						
104				10 mm 1/4" Reach	AC	
44 R44	R44S* 44S*	43 43-5 43-5R R43	42 42S* R42S*	14 mm 3/8" Reach		
43L				14 mm 5/16" Reach		
44N	R44XLS* R44XL	43N		14 mm 3/4" Reach		
84T 84TS*				18 mm 60" Seat		
Y-4A				10 mm 1/4" Reach	CHAM- PION	
J-7	J-12Y* XJ-12Y*	J-6	J-5	J-9Y* J-2		14 mm 3/8" Reach
H-9	H-8					14 mm 5/16" Reach
N-8	N-16Y*	N-5	N-12Y* XN12Y*	N-3		14 mm 3/4" Reach
860 F-11Y*				F-10		18 mm 60" Seat
P4 PR4				10 mm 1/4" Reach	AUTO- LITE	
AT6	AR 5 AR51 A5	A52* AR52*	AR4 AR41 AT4	A42* AR42* A3 AR32* A32* AT3 4S-250 AR31		14 mm 3/8" Reach
AL5 ARL5		ATL4				14 mm 5/16" Reach
AGR51 4GS-175 AG5		AGR52* AG52* AG5	4GS-200 AGR41 AGR42*	AGR32* AGR31 AG3		14 mm 3/4" Reach
BTF6		BRF42* BF42*		DTF3		18 mm 60" Seat

TREND IN ANTIKNOCK QUALITY OF REGULAR GASOLINES
SOLD IN THE UNITED STATES



TREND IN ANTIKNOCK QUALITY OF PREMIUM GASOLINES SOLD IN THE UNITED STATES

